- 1 What is claimed is:
- 2 1. A method for fabricating wafer-level chip scale packages, comprising:
- 3 providing a wafer containing a plurality of chips, the wafer having a surface forming
- 4 with a plurality of pads;
- forming a plurality of sacrificial photoresists on the surface of the wafer, each
- 6 sacrificial photoresist having a supporting surface without covering the pads;
- forming a negative photoresist layer on the surface of the wafer, the negative
- 8 photoresist layer covering the sacrificial photoresists;
- 9 patterning the negative photoresist layer to form a plurality of dielectric supporting
- bars, the dielectric supporting bars being formed on the supporting surfaces of
- 11 sacrificial photoresists;
- forming a plurality of metal bars on the dielectric supporting bars, the metal bars being
- bonded on the dielectric supporting bars and connecting to the pads to assemble a
- plurality of pin terminals; and
- removing the sacrificial photoresists.
- 16 2. The method for fabricating wafer-level chip scale packages according to claim 1,
- wherein the negative photoresist layer on the supporting surfaces of the sacrificial
- photoresists has a thickness between 25 μ m and 250 μ m.
- 19 3. The method for fabricating wafer-level chip scale packages according to claim 1,
- wherein the supporting surfaces of the sacrificial photoresists are slanted from the
- 21 surface of the wafer.
- 4. The method for fabricating wafer-level chip scale packages according to claim 1,
- 23 wherein the sacrificial photoresists are made from the material selected from a positive
- 24 photoresist and a positive dry film.
- 25 5. The method for fabricating wafer-level chip scale packages according to claim 1,
- wherein the negative photoresist layer is formed by printing or spin coating.
- 27 6. The method for fabricating wafer-level chip scale packages according to claim 1,

- wherein the metal bars are formed by plating, evaporation or sputtering.
- 7. The method for fabricating wafer-level chip scale packages according to claim 1,
- 3 further comprising a step of singulating the wafer to form wafer-level chip scale
- 4 packages including the chips after removing the sacrificial photoresist.